Sl. No.	Description of works		Unit		L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
	a) 1-3Way									
	Basic Rate =	109.00	Each	135				135.00	109.00	14715.00
	b) 4-5Way									
	Basic Rate =	122.00	Each	125				125.00	122.00	15250.00
	c) 6Way									
	Basic Rate =	173.00	Each	80				80.00	173.00	13840.00
	d) 8Way									
	Basic Rate =	200.00	Each	60				60.00	200.00	12000.00
	e) 10-12Way									
	Basic Rate =	267.00	Each	40				40.00	267.00	10680.00
84	Supplying and fixing of modular switch/ Socket/stepped electronic fan regulator/ dimmer/telephone socket etc on existing modular switch plate as per IS 3854 and IS 1293. (Page No. 16, Item No.3.7)									
	a) 6Amps one way									
	Basic Rate =	63.00	Each	65				65.00	63.00	4095.00
	b) 6Amps 3way socket									
	Basic Rate =	95.00	Each	42				42.00	95.00	3990.00
	c) Stepped Fan Regulator									
	Basic Rate =	286.00	Each	40				40.00	286.00	11440.00
	d) 16Amps one way switch									
	Basic Rate =	114.00	Each	20				20.00	114.00	2280.00
	e) 6/16Amps universal socket									
	Basic Rate =	147.00	Each	20				20.00	147.00	2940.00
	f) TV/Telephone socket									
	Basic Rate =	82.00	Each	15				15.00	82.00	1230.00
85	supplying and wiring adopting loop system in existing PVC conduit / casing capping using **1100 v grade , copper conductor flexible multistrand FRLS PVC insulated, 2 x1.5sq.mm** cable confirming to the GTP, without switch, the other end of the wires shall be terminated with sufficient loose length in a wood /PVC cound block. complete for each outlet. (Page No. 5, Item No.2.3.1 to 2.3.5)									
	a) Short point up to 3Mtr from tapping point to out let via switch box									
	Basic Rate =	144.00	Each	36				36.00	144.00	5184.00
	b) Medium point above 3Mtr up to 6Mtr from tapping point to out let via switch box									
	Basic Rate =	215.00	Each	90				90.00	215.00	19350.00
	c) Long point above 6Mtr up to 10Mtr from tapping point to out let via switch box									
	Basic Rate =	334.00	Each	30				30.00	334.00	10020.00
	d) Two Outlet in a row, above 3.0M unto 6.0M from tapping point to outlet via switch box.									
	Basic Rate =	423.00	Each	15				15.00	423.00	6345.00
	e) Three Outlet in a row, above 6.0M unto 10.0M from tapping point to outlet via switch box.									
	Basic Rate =	593.00	Each	6				6.00	593.00	3558.00
86	Supplying and fixing **metal Fan box** with Round Hook. (Page No. 3, Item No. 1.12)									
	Basic Rate =	92.00	Each	18				18.00	92.00	1656.00
87	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100v grade, multistrand **Copper with low** conductor resistance single core cable in open or concealed system of wiring with specified IS-694:1990 & comfirming to GTP of Group-A .(Page No. 6, Item No.2.5.2 to 2.5.6)									
	a) 1.5 sqmm									
	Basic Rate =	18.60	Mtr	250				250.00	18.60	4650.00
	b) 2.5 sqmm									
	Basic Rate =	29.20	Mtr	500				500.00	29.20	14600.00
	c) 25mm dia 2mm thick									
	Basic Rate =	42.10	Mtr	150				150.00	42.10	6315.00
	d) 6 sqmm									
	Basic Rate =	63.80	Mtr	50				50.00	63.80	3190.00
	e) 10 sqmm									
	Basic Rate =	108.00	Mtr	20				20.00	108.00	2160.00

Sl. No.	Description of works		Unit		L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
88	Supplying and fixing regular **MCB distribution boards** on wall/wood board/flush mountin using required clamps, bolts, nuts with provision for fixing suitable type capacity MCB's single phase/3 phase/single door with powder coated painting. Made out of 14 SWG M.S enclosure.(Page No. 47, Item No.6.17.7, 6.17.8, 6.17.6) **Double door**									
	Double door									
	a) 4 way TP & N									
	Basic Rate =	2399.00	Mtr	3				3.00	2399.00	7197.00
	b) 6 way TP & N									
	Basic Rate =	2867.00	Mtr	3				3.00	2867.00	8601.00
	b) 12 way SP & N									
	Basic Rate =	1622.00	Mtr	3				3.00	1622.00	4866.00
89	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' Type curve, indicator ON/OFF, energy cross-3 with Short circuit breaking capacity of 10K and complete wiring as required confirming to IEC 60898 (Page No. 47, Item No. 6.16.1, 6.16.6, 6.16.5))									
	a) 5-32Amps SP									
	Basic Rate =	418.00	Each	14				14.00	418.00	5852.00
	b) 5-32Amps TPN									
	Basic Rate =	1547.00	Each	15				15.00	1547.00	23205.00
	c) 40-63Amps TPN									
	Basic Rate =	1936.00	Each	9				9.00	1936.00	17424.00
90	Supplying, fixing and wiring eaarth Earth Leakage Miniature Circuit Breaker [ELMCB] 240/250V upto 300mA sensitivity on existing wood/panel board.(Page No. 47, Item No. 6.18.1 & 6.18.4)									
	a) 16-25Amps 2Pole									
	Basic Rate =	2412.00	Each	13				13.00	2412.00	31356.00
	b) 32-40Amps 4Pole									
	Basic Rate =	3350.00	Each	13				13.00	3350.00	43550.00
91	Fabricating supplying and mounting **MS box** made out ...SWG suitable for floor I wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 2 coats of red oxide primer paint and finally finished with approved colour enameled metal paint etc., complete (Page No. 49, Item No. 6.40.1)									
	14 SWG									
	Basic Rate =	0.37	Sqcm	8500				8500.00	0.37	3145.00
92	Supplying .....amps rated 3phase with **neutral bus bar** using required capacity electrolytic aluminum strips covered with heat shrinkable coloured PVC sleeve, mounted on phenoliciFRP/DMC insulator which are mounted on powder coated 40x6mm M.S.flat frame work in existing panel board. The bus bar shall have suitable holes for termination of incoming and outgoing cables as per IS specification with necessary bolts, nuts and washers etc., complete. (Page No. 49, Item No. 6.38.1)									
	100Amps 4x30x6mm Aluminum Strips									
	Basic Rate =	2135.00	mtr	3				3.00	2135.00	6405.00
93	Supplying fixing angle **iron frame work** fabricated out of M.S angle iron .. And m.S flat.... With bolts, washers etc., and painted with two coats of red oxide and then two coats of approved paint. (Page No. 49, Item No. 6.39.1 & 6.39.4)									
	a) 40x40x6 mm									
	Basic Rate =	263.00	mtr	3				3.00	263.00	789.00
	a) 50x100x50x6 mm									
	Basic Rate =	648.00	mtr	3				3.00	648.00	1944.00

Sl. No.	Description of works		Unit		L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
94	Supplying and fixing **Moulded Case Circuit Breaker** (MCCB) .over the existing wood/panel board using necessary screws, bolts, nuts and wiring complete. Protection of Overload and Short circuit with thermal Magnetic/Micro processor release and Earth Fault as per IS-13947. (Ieu= Ics) (Page No. 46, Item No. 6.13.6)									
	FOUR POLE 100Amps 25kA									
	Basic Rate =	5809.00	Each	3				3.00	5809.00	17427.00
95	Supplying of multi function degital meter with three line backlight LCD type display for voltage , current frequency, power, power factor, KVA, KWH,KVAR suitable for 3 phase, 4 wire LT network with IP 54degree of protection and completely wired as required with communication port and class 0.5s accuracy. (Page No. 48, Item No. 6.31)									
	FOUR POLE 100Amps 25kA									
	Basic Rate =	8003.00	Each	3				3.00	8003.00	24009.00
96	Supplying, fixing and wiring 0 to 600Volts **96x96mm AC Voltmeter** on existing panel/wood board. (Page No. 48, Item									
	Basic Rate =	390.00	Each	8				8.00	390.00	3120.00
97	Supplying, fixing and wiring **50/5 to 400/5Amps** 5VA burden Current Transformer. Class 0.5 accuracy with Tape Wound (Page No. 48, Item No. 6.32)									
	Basic Rate =	483.00	Each	8				8.00	483.00	3864.00
98	Supplying and fixing of **LED type panel board** indicating lamp with required colour suitable for 220v A.C. 50 Hz 12/24v D.C (Page No. 48, Item No. 6.36)									
	Basic Rate =	442.00	Each	8				8.00	442.00	3536.00
99	Supplying of on **Load change over switches 4 poles**, AC-23A Duty, 415V, 50Hz, AC Supply. (Page No. 45, Item No. 6.11.2) 100-125Amps									
	Basic Rate =	6426.00	Each	8				8.00	6426.00	51408.00
	Part B- Laying of LT UG cable									
100	Supplying of **1.1 KV LT UG cable** having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No.of Strip indicated in GTP & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A (Page No. 55, Item No. 7.4.7 7.4.4)									
	a) 3.5 core 50 sqmm									
	Basic Rate =	265.00	Mtr	60				60.00	265.00	15900.00
	b) 4 core 16 sqmm									
	Basic Rate =	140.40	Mtr	90				90.00	140.40	12636.00
101	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required.(Page No. 61, Item No. 7.8.1 & 7.8.2)									
	a) 25 sqmm to 75 sqmm									
	Basic Rate =	16.20	Mtr	90				90.00	16.20	1458.00
	b) 6 sqmm 16 Sqmm									
	Basic Rate =	10.80	Mtr	150				150.00	10.80	1620.00
102	Digging of trench of 0.6m deep x 0.50 mtr wide **refiling the trench** to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)(Page No. 61, Item No. 7.9.1) In soil (ordinary)									
	Basic Rate =	78.00	Mtr	98				98.00	78.00	7644.00
103	providing and filling sand in **exvated trench** to cover already laid UG cable to a depth of 150mm alround the cable.(Page No. 62, Item No. 7.10)									
	Basic Rate =	103.00	Mtr	98				98.00	103.00	10094.00
104	providing and laying in position **100mm dia stone ware** pipe in existing trench (Page No. 62, Item No. 7.11)									
	Basic Rate =	223.00	Mtr	58				58.00	223.00	12934.00
105	Supplying and fixing of class A (medium duty) **GI pipe of wall thick ness** not less than 3.25mm on pole/wall/drain crossing with necessary clamping arrangements for UG cable of 1.1 KV class.(Page No. 62, Item No. 7.12.3) 65 mm									
	Basic Rate =	585.00	Rmt	30				30.00	585.00	17550.00

Sl. No.	Description of works		Unit		L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
106	Supplying and fixing **L.T cast iron pot heads** suitable for 1.1 Kv class UG cable filled with necessory bitumin / insulating compound Complete with terminals, clamps, bolts, nuts and washers.(Page No. 62, Item No. 7.13.5)									
	Basic Rate =	637.00	Rmt	3				3.00	637.00	1911.00
107	Supplying and fiixing of **heavy duty cable glands** suitable for UG cable of 1.1 KV class (metal only)(Page No. 62, Item No. 7.14.6)									
	63mm dia									
	Basic Rate =	400.00	Each	6				6.00	400.00	2400.00
108	Supplying tinned copper lugs and crimping and wiring to terminal point for wire of the following sizes.(Page No. 64, Item No. 7.29.9 & 7.29.4)									
	a) 50 sqmm Long Barrel									
	Basic Rate =	62.40	Each	36				36.00	62.40	2246.40
	b) 6 sqmm									
	Basic Rate =	6.25	Each	36				36.00	6.25	225.00
109	Supplying fixing and wiring earth **electrode for grounding** of lifts, transformers, DG sets etc using 40mm dia 2.9mm thick 2.5 mtr long GI pipe with GI funnel with mesh and suitable size reducer fixed on the top of the earth electrode. The funnel should be enclosed in a CC chamber of 400x400x400mm with a cast iron cover. The earth electrode shall have staggered holes of 12mm dia and the electrode should be covered 150mm alround with alternate layers of salt and charcoal from the bottom of the CC chamber. The connection from the electrode is to be established through GI strip using GI bolts and nuts. (Page No. 55, Item No. 7.2)									
	Basic Rate =	4317.00	Each	4				4.00	4317.00	17268.00
110	Supplying and running of GI/**Copper strips** for grounding connections, using necessary fixing materials as required. (Page No. 55, Item No. 7.3.2) GI strip 25x6mm									
	Basic Rate =	118.00	Mtr	60				60.00	118.00	7080.00
	Part C- Providing light fixtures and accessories									
111	Supplying of 2' feet - **LED PVC Square Batten** ..W with high quality diffuser with Life of 25000 burning hours & 70% lumen maintenance with CRI > 80. Power Input: 220-240V @ 50Hz & Power factor >0.9 along with CE approved drivers. 5 years Warranty against any manufacturing defect working under standard electrical condition (Page No. 25, Item No. 4.29.2) **LED light fighting 4' - 28 watts**									
	Basic Rate =	1774.00	Each	60				60.00	1774.00	106440.00
112	Supplying and fixing **PBBC/Bakelite straight** or slant batten holder and wiring with 60w/230 volts lamp. (Page No. 20, Item No. 4.2)									
	Basic Rate =	183.00	Each	17				17.00	183.00	3111.00
113	Supplying capacitor type **ceiling fan** complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374-1979 and with double ball bearing system. (Page No. 78, Item No. 9.3.2.1) 56" Sweep (1400mm) Regular moduel									
	Basic Rate =	2418.00	Each	40				40.00	2418.00	96720.00
114	Supplying **exhaust fan of 1440 RPM** of 300mm (12") sizewith bracket blades complete for light duty suitable to operate on 230V 50Hz. AC Supply (Page No. 78, Item No. 9.1)									
	Basic Rate =	1700.00	Each	25				25.00	1700.00	42500.00
115	Fixing all types and all capacities **fluorescent / false ceiling/spotlight/ CFLfittings indoor on the wall/ ceiling/rafters / girders** using 23/0.0076" twin twisted RVC insulated wires, required nos of round blocks and clamps (if required) (Page No. 78, Item No. 9.1)									
	Basic Rate =	98.00	Each	56				56.00	98.00	5488.00
116	Fixing **fluorescent light** using 2mtr long 19mm 18 SWG enameled braised conduit of two Nos. rod pendent with ball socket with check nuts all nickel plated (Page No. 109, Item No. 17.7.4)									
	Basic Rate =	504.00	Each	58				58.00	504.00	29232.00

Sl. No.	Description of works		Unit		L	B	D	Quantity	Rate(in Rs.)	Amount (In Rs.)
117	Fixing a ceiling /Wall mounting fan of all capacities and all types to the existing 'S' hook with fan regulator to the existing board together with supplying and fixing 5 amps.ceiling rose,necessary length of 23/0.0076 inch PVC insulated twin twisted copper wire of approved quality, mounted on a suitable aize wooden board and wired(Page No. 109, Item No. 17.9)									
	Basic Rate =	237.00	Each	25				25.00	237.00	5925.00
118	Fixing a ceiling fan with extra length of GI pipe of class B 19mm dia for down rod(Page No. 109, Item No. 17.10)									
	Basic Rate =	164.00	Each	20				20.00	164.00	3280.00
119	Fixing one **Exhast fan in the nitch** already left in the wall with bolts and nets and 5 amps. Ceiling rose with sufficient length of 23 / 0.0076 inch PVC insulated twin core wire. (Page No. 109, Item No. 17.12)									
	Basic Rate =	412.00	Each	25				25.00	412.00	10300.00
	ELECTRICAL WORK TOTAL									927476.40

Certificate:

1) The Work spot has been inspected and found to be necessory
2) The work spot comes under B.B.M.P
3) The provisions made in the estimate are necessory and minimum
4) The estimate is based on C.S.R 2016-2017 and approved rates

Assistant Engineer
Yalahanka Project
BBMP

Assistant Executive Engineer
Yalahanka Project
BBMP

Executive Engineer
Yalahanka Project
BBMP
9/X/17

Technical Sanction
Accorded For .....
Head of A/C.....P3242.....
CER NO :.....249..... Dt. 10/10/17

[TA] CE (YNK)